

Amendments to the Claims:

This listing of the claims replaces all prior versions and listing of the claims in the present application.

Listing of Claims

1. (currently amended) An information record medium on which there are recorded in a non-transitory state:

an object data file for storing a object data which includes a video stream having ~~information to indicate~~ a main-video[[;]] and ~~sub video information to indicate~~ a sub-picture stream having a sub-picture sub-video displayable at least partially over the main-video; [[and]]

a play list information file for storing play list information which includes a plurality of item information each of which indicates a reproduction unit of the object data; and

an object information file for storing object information which indicates an address of the object data which is indicated by each of the plurality item information, wherein

the sub-picture stream includes sub-picture information, which indicates the sub-picture displayable at least partially over the main-video, and sub-picture control information,

the sub-picture ~~sub-video~~ control information includes including (i) ~~sub frame range information to indicate at least a partial area of the sub video as a sub frame~~ and (ii) sub-frame control information to control displaying ~~the~~ sub-frame which

forms one portion of the sub-picture to be displayed over the main-video, (ii) identification information to indicate the sub-picture information which is a control target by the sub-frame control information, (iii) sub-frame display position information to indicate a display position of the sub-frame, (iv) cut out range information to indicate a range of the sub-picture which forms the sub-frame by cutting-out one portion of the sub-picture, (v) button number information to indicate the number of button which is formed by the sub-frame, (vi) button state information to indicate an initial button state of the button, and (vii) command information to indicate a command which is to be performed in accordance with the button, wherein

the sub-frame control information includes dynamic control information to display dynamically the sub-frame.

2. (original) The information record medium according to claim 1, wherein

the dynamic control information includes information to change dynamically at least one of a display position, a display size and a display shape of the sub-frame to be displayed over the main-video.

3. (original) The information record medium according to claim 1, wherein

the dynamic control information includes information to change dynamically a display content within the sub-frame whose

display position, display size and display shape are fixed relative to the main-video.

4. (currently amended) The information record medium according to claim 1, wherein

the sub-frame display position ~~range~~ information designates a rectangular area as the sub-frame, the rectangular area occupying a part of the sub-picture ~~sub-video~~, and

the dynamic control information has information to change dynamically the display content within the sub-frame by changing the rectangular area designated by the sub-frame display position ~~range~~ information relative to the sub-picture ~~sub-video~~.

5. (original) The information record medium according to claim 1, wherein

the dynamic control information has information to display dynamically the sub-frame in such a manner that the sub-frame moves two-dimensionally or three-dimensionally relative to the main-video.

6. (canceled)

7. (currently amended) An information record apparatus, which is for recording information into an information record medium in a non-transitory state, comprising:

a first record device for recording an object data file for storing a object data which includes a video stream having ~~information to indicate~~ a main-video and ~~[[;]] a second record device for recording sub-video information to indicate~~ a sub-

picture stream having a sub-picture, sub-video displayable at least partially over the main video; and a play list information file for storing play list information which includes a plurality of item information each of which indicates a reproduction unit of the object data, and an object information file for storing object information which indicates an address of the object data which is indicated by each of the plurality item information, wherein

the first record device records the sub-picture stream in such a manner that the sub-picture stream includes sub-picture information, which indicates the sub-picture displayable at least partially over the main-video, and sub-picture control information,

a third record device for recording the first record device records the sub-picture control information in such a manner that the sub-picture sub-video control information includes including (i) sub frame range information to indicate at least a partial area of the sub video as a sub frame and (ii) sub-frame control information to control displaying the sub-frame which forms one portion of the sub-picture to be displayed over the main video, (ii) identification information to indicate the sub-picture information which is a control target by the sub-frame control information, (iii) sub-frame display position information to indicate a display position of the sub-frame, (iv) cut out range information to indicate a range of the sub-picture which forms the sub-frame by cutting-out one portion of the sub-picture, (v)

button number information to indicate the number of button which is formed by the sub-frame, (vi) button state information to indicate an initial button state of the button, and (vii) command information to indicate a command which is to be performed in accordance with the button, wherein

the first ~~third~~ record device records the sub-frame control information in such a manner that the sub-frame control information includes dynamic control information to display dynamically the sub-frame.

8. (currently amended) An information record method, which is for recording information into an information record medium in a non-transitory state, comprising:

a first record process of recording an object data file for storing a object data which includes a video stream having information to indicate a main-video and[[;]] ~~a second record process of recording sub video information to indicate a sub-picture stream having a sub-picture, sub video displayable at least partially over the main video; and~~ a play list information file for storing play list information which includes a plurality of item information each of which indicates a reproduction unit of the object data, and an object information file for storing object information which indicates an address of the object data which is indicated by each of the plurality item information, wherein

the first record process is for recording the sub-picture stream in such a manner that the sub-picture stream includes sub-

picture information, which indicates the sub- picture displayable at least partially over the main-video, and sub- picture control information,

~~a third record process of recording the first record process~~ is for recording the sub-picture control information in such a manner that the sub-picture ~~sub-video~~ control information includes including (i) ~~sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) sub-frame control information to control displaying the sub-frame which forms one portion of the sub-picture to be displayed over the main-video,~~ (ii) identification information to indicate the sub-picture information which is a control target by the sub-frame control information, (iii) sub-frame display position information to indicate a display position of the sub-frame, (iv) cut out range information to indicate a range of the sub-picture which forms the sub-frame by cutting-out one portion of the sub-picture, (v) button number information to indicate the number of button which is formed by the sub-frame, (vi) button state information to indicate an initial button state of the button, and (vii) command information to indicate a command which is to be performed in accordance with the button, wherein

the first ~~third~~ record process is for recording the sub-frame control information in such a manner that the sub-frame control information includes dynamic control information to display dynamically the sub-frame.

9. (currently amended) An information reproduction apparatus for reproducing information from the ~~an~~ information record medium according to claim 1 ~~on which there are recorded: video information to indicate a main-video; sub-video information to indicate a sub-video displayable at least partially over the main-video; and sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) sub-frame control information to control displaying the sub-frame to be displayed over the main-video, wherein the sub-frame control information includes dynamic control information to display dynamically the sub-frame, said~~ information reproduction apparatus comprising:

a reading device for reading the object data file, the play list information file and the object information file from the information record medium; and

a reproduction device for reproducing the main-video and the sub-picture ~~video information, the sub-video information and the sub-video control information;~~

~~a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and~~

~~a control device for controlling the display output device to display dynamically the sub-frame over the main-video, on the basis of the sub-frame control information in the reproduced sub-video control information.~~

10. (currently amended) An information reproduction method of reproducing information from the ~~an~~ information record medium according to claim 1 ~~on which there are recorded: video information to indicate a main-video; sub-video information to indicate a sub-video displayable at least partially over the main-video; and sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) sub-frame control information to control displaying the sub-frame to be displayed over the main-video, wherein the sub-frame control information includes dynamic control information to display dynamically the sub-frame, said information reproduction method comprising:~~

a reading process of reading the object data file, the play list information file and the object information file from the information record medium; and

a reproduction process of reproducing the main-video and the sub-picture ~~video information, the sub-video information and the sub-video control information; and~~

~~a control process of controlling a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information to display dynamically the sub-frame over the main-video, on the basis of the sub-frame control information in the reproduced sub-video control information.~~

11. (currently amended) An information record reproduction apparatus, which is for recording information into an information record medium in a non-transitory state and for reproducing the information from the information record medium, comprising:

a first record device for recording an object data file for storing a object data which includes a video stream having information to indicate a main-video and~~[[;]] a second record device for recording sub-video information to indicate a sub-picture stream having a sub-picture, sub-video displayable at least partially over the main video;~~ and a play list information file for storing play list information which includes a plurality of item information each of which indicates a reproduction unit of the object data, and an object information file for storing object information which indicates an address of the object data which is indicated by each of the plurality item information, wherein

the first record device records the sub-picture stream in such a manner that the sub-picture stream includes sub-picture information, which indicates the sub-picture displayable at least partially over the main-video, and sub-picture control information,

~~a third record device for recording~~ the first record device records the sub-picture control information in such a manner that the sub-picture sub-video control information includes including
(i) ~~sub frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) sub-frame control~~

information to control displaying ~~the~~ sub-frame which forms one portion of the sub-picture ~~to be displayed over the main video,~~ (ii) identification information to indicate the sub-picture information which is a control target by the sub-frame control information, (iii) sub-frame display position information to indicate a display position of the sub-frame, (iv) cut out range information to indicate a range of the sub-picture which forms the sub-frame by cutting-out one portion of the sub-picture, (v) button number information to indicate the number of button which is formed by the sub-frame, (vi) button state information to indicate an initial button state of the button, and (vii) command information to indicate a command which is to be performed in accordance with the button, wherein

the first ~~third~~ record device records the sub-frame control information in such a manner that the sub-frame control information includes dynamic control information to display dynamically the sub-frame, and

said information record reproduction apparatus further comprising:

a reading device for reading the object data file, the play list information file and the object information file from the information record medium; and

a reproduction device for reproducing the main-video and the sub-picture ~~video information, the sub video information and the sub-video control information;~~

~~a display output device capable of displaying and outputting the reproduced sub video information over the reproduced video information; and~~

~~a control device for controlling the display output device to display dynamically the sub frame over the main video, on the basis of the sub frame control information in the reproduced sub video control information.~~

12. (currently amended) An information record reproduction method, which is for recording information into an information record medium in a non-transitory state and for reproducing the information from the information record medium, comprising:

a first record process of recording an object data file for storing a object data which includes a video stream having information to indicate a main-video and[[;]]a second record process of recording sub video information to indicate a sub-picture stream having a sub-picture, sub video displayable at least partially over the main video; and a play list information file for storing play list information which includes a plurality of item information each of which indicates a reproduction unit of the object data, and an object information file for storing object information which indicates an address of the object data which is indicated by each of the plurality item information, wherein

the first record process is for recording the sub-picture stream in such a manner that the sub-picture stream includes sub-picture information, which indicates the sub-picture displayable

at least partially over the main-video, and sub-picture control information,

~~a third record process of recording~~ the first record process
is for recording the sub-picture control information in such a
manner that the sub-picture sub-video control information includes
including (i) sub frame range information to indicate at least a
partial area of the sub-video as a sub-frame and (ii) sub-frame
control information to control displaying the sub-frame which
forms one portion of the sub-picture to be displayed over the
main-video, (ii) identification information to indicate the sub-
picture information which is a control target by the sub-frame
control information, (iii) sub-frame display position information
to indicate a display position of the sub-frame, (iv) cut out
range information to indicate a range of the sub-picture which
forms the sub-frame by cutting-out one portion of the sub-picture,
(v) button number information to indicate the number of button
which is formed by the sub-frame, (vi) button state information to
indicate an initial button state of the button, and (vii) command
information to indicate a command which is to be performed in
accordance with the button, wherein

the first ~~third~~ record process is for recording the sub-frame control information in such a manner that the sub-frame control information includes dynamic control information to display dynamically the sub-frame, and

said information record reproduction method further comprising:

a reading process of reading the object data file, the play list information file and the object information file from the information record medium; and

a reproduction process of reproducing the main-video and the sub-picture video information, ~~the sub-video information and the sub-video control information; and~~

~~a control process of controlling a display output device capable of displaying and outputting the reproduced sub video information over the reproduced video information to display dynamically the sub frame over the main video, on the basis of the sub frame control information in the reproduced sub video control information.~~

13. (currently amended) A computer-readable recording medium recording thereon, in a non-transitory state, a computer program product for a record control to control a computer disposed at the ~~[[an]]~~ information record apparatus according to claim 7 comprising: ~~a first record device for recording video information to indicate a main video; a second record device for recording sub video information to indicate a sub video displayable at least partially over the main video; and a third record device for recording sub video control information including (i) sub frame range information to indicate at least a partial area of the sub video as a sub frame and (ii) sub frame control information to~~

~~control displaying the sub frame to be displayed over the main video, wherein the third record device records the sub frame control information in such a manner that the sub frame control information includes dynamic control information to display dynamically the sub frame, said computer program product making the computer function as at least a part of the first record device, the second record device and the third record device.~~

14. (currently amended) A computer-readable recording medium recording thereon, in a non-transitory state, computer program product for a reproduction control to control a computer disposed at the ~~[[an]]~~ information reproduction apparatus according to claim 9 ~~for reproducing an information record medium on which there are recorded: video information to indicate a main video; sub video information to indicate a sub video displayable at least partially over the main video; and sub video control information including (i) sub frame range information to indicate at least a partial area of the sub video as a sub frame and (ii) sub frame control information to control displaying the sub frame to be displayed over the main video, wherein the sub frame control information includes dynamic control information to display dynamically the sub frame, said information reproduction apparatus comprising: a reproduction device for reproducing the video information, the sub video information and the sub video control information; a display output device capable of displaying and outputting the reproduced sub video information over the~~

~~reproduced video information; and a control device for controlling the display output device to display dynamically the sub frame over the main video, on the basis of the sub frame control information in the reproduced sub video control information, said computer program product making the computer function as at least a part of the reading device and the reproduction device, ~~the display output device and the control device.~~~~

15. (currently amended) A computer-readable recording medium recording thereon, in a non-transitory state, computer program product for a record reproduction control to control a computer disposed at the ~~[[an]]~~ information record reproduction apparatus according to claim 11 comprising: ~~a first record device for recording video information to indicate a main video; a second record device for recording sub video information to indicate a sub video displayable at least partially over the main video; and a third record device for recording sub video control information including (i) sub frame range information to indicate at least a partial area of the sub video as a sub frame and (ii) sub frame control information to control displaying the sub frame to be displayed over the main video, wherein the third record device records the sub frame control information in such a manner that the sub frame control information includes dynamic control information to display dynamically the sub frame, and said information record reproduction apparatus further comprising: a reproduction device for reproducing the video information, the~~

~~sub video information and the sub video control information; a display output device capable of displaying and outputting the reproduced sub video information over the reproduced video information; and a control device for controlling the display output device to display dynamically the sub frame over the main video, on the basis of the sub frame control information in the reproduced sub video control information, said computer program product making the computer function as at least a part of the first record device, the second record device, the third record device, the reading device and the reproduction device, the display output device and the control device.~~

16. (canceled)